

# **EXHIBIT 28**

**(Part 2)**

**Transformer Repair Invoices and Documents  
for Ameren (Excerpts)**

S. O. No. 64373 Name No. Utilities Address Cape  
 Order No. 47153 Date Received 6-13-72 Date Finished Date Delivered 6/13/72  
 Inv. No. 69848 TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri Memo No. 345

Name Plate Data		WINDING — PARTS — DATA	
Make Whse.		High Side	Low Side
K. V. A. 25		Volts 4160	120/240
Type CSP		Turns	
Form		Size Wire	
Style 39200X25LDL		Wire Par	
Spec.		Notes:	
Model			
Serial No. 6882950		Co. No. A/C-6194	
Cycles 60		Work to be done: Reinspect. Replace H.V. bushing; fill; test; pick up & deliver.	
Polarity			
Hangers			
Bushings, H. V. one broke			
Bushings, L. V. X			
Gals. Oil			
% Imp.			
Phase 1			

Name Plate Data		WINDING — PARTS — DATA	
Make Moloney		High Side	Low Side
K. V. A. 200	3.3	Volts 3980	230/460
Type HR		Turns	
Form		Size Wire	
Style		Wire Par	
Spec.		Notes: 2250*	
Model		4348-9269-4160-4256-3952	
Serial No. 472494	3.3	Co. No.	
Cycles 60		Work to be done: complete rewind of; supply	
Polarity 4	ADD	oil; assay; test; pvt.	
Hangers			
Bushings, H. V.			
Bushings, L. V.			
Gals. Oil 140			
% Imp. 3.3	3.3		
Phase 1			

(J-6187- 11-22-71)

S. O. No. <b>64852</b>	Name <b>National Electric</b>	Address <b>St. Louis, Mo.</b>
Order No.	Date Received <b>8-8-72</b>	Date Finished
Inv. No. <b>70479</b>	TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri	
Name Plate Data		WINDING — PARTS — DATA
Make <b>plating transformer</b>	High Side	Low Side
K. V. A.	Volts	
Type	Turns	
Form	Size Wire	
Style	Wire Par	
Spec.	Notes: <b>Revised 1 leg - approx 5KVA ea</b>	
Model	Co. No.	
Serial No.	Work to be done: <b>Revised one primary repair</b>	
Cycles	<b>of secondary windings; special diproak</b>	
Polarity	<b>clean; assy test.</b>	
Hangers		
Bushings, H. V.		
Bushings, L. V.		
Gals. Oil		
% Imp.		
Phase		

S. O. No. <b>64854</b>	Name <b>Mo. Utilities</b>	Address <b>Cape</b>
Order No. <b>47633</b>	Date Received <b>8-8-72</b>	Date Finished
Inv. No. <b>70384</b>	TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri	
Name Plate Data		WINDING — PARTS — DATA
Make <b>Wagner</b>	High Side	Low Side
K. V. A. <b>75</b>	Volts <b>7200</b>	<b>240/480</b>
Type <b>HEK</b>	Turns	
Form	Size Wire	
Style	Wire Par	
Spec.	Notes:	
Model	Co. No.	
Serial No. <b>5R48001</b>	Work to be done: <b>Remove old drain oil</b>	
Cycles <b>60</b>	<b>flush coils; fill with new oil; test;</b>	
Polarity <b>add</b>	<b>prt.</b>	
Hangers <b>N</b>		
Bushings, H. V. <b>ok</b>		
Bushings, L. V. <b>ok</b>		
Gals. Oil <b>28</b>		
% Imp. <b>1.9</b>		
Phase <b>1</b>		



S. O. No. 65146 Name Missouri Utilities Address Charleston, Mo.

Order No. 47940 Date Received 9-8-72 Date Finished Date Delivered

Inv. No. 11922 TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri Memo No.

Name Plate Data

Make Allis Chalmers

K. V. A. 10

Type SB

Form

Style

Spec.

Model

Serial No. 3179319

Cycles 60

Polarity Add

Hangers

Bushings, H. V.

Bushings, L. V.

Gals. Oil 8

% Imp. 1.8

Phase 1

WINDING — PARTS — DATA

High Side

Low Side

Volts

2400

120/240

Turns

Size Wire

Wire Par

Notes:

Checked - mids removed

Co. No. 1000

Work to be done:

S. O. No. 65147 Name Missouri Utilities Address Charleston, MO.

Order No. 47940 Date Received 9-8-72 Date Finished Date Delivered 6-14-74

Inv. No. 74692 TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri Memo No. 5103

Name Plate Data

Make Allis Chalmers

K. V. A. 10

Type RP

Form

Style

Spec.

Model

Serial No. 3448

Cycles 60

Polarity Add

Hangers

Bushings, H. V.

Bushings, L. V.

Gals. Oil 8

% Imp. XX 2.1

Phase 1

WINDING — PARTS — DATA

High Side

Low Side

Volts

7200

120/240

Turns

Size Wire

Wire Par

Notes:

Co. No. 1189

Work to be done: Wash with Clean & dry, replace  
insulation & wire supply oil, test, put

S. O. No. 66175 Name Missouri Utilities Address Cape  
 Order No. 50120 Date Received 5-24-73 Date Finished Date Delivered 5/25/73  
 Inv. No. 72168 TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri Memo No. 3007

Name Plate Data		WINDING — PARTS — DATA	
Make	<u>Westinghouse</u>	High Side	Low Side
K. V. A.	<u>167</u>	Volts <u>4160/12000/12480</u>	<u>2274 277</u>
Type		Turns	
Form		Size Wire	
Style	<u>AE852A67AA1</u>	Wire Par	
Spec.		Notes:	<u>Hole in tank</u>
Model		Co. No.	<u>AC 5316</u>
Serial No.	<u>69F1281</u>	Work to be done:	<u>Remove pins, core, test oil, replace bushings, seal, fill with new oil, test, put, 1</u>
Cycles	<u>60</u>		
Polarity	<u>SUB</u>		
Hangers			
Bushings, H. V.			
Bushings, L. V.			
Gals. Oil			
% Imp.			
Phase	<u>1</u>		

S. O. No. 66300 Name Giles Armature Address Marion, Ill.  
 Order No. 57376 Date Received 6-10-73 Date Finished Date Delivered 6/16/73  
 Inv. No. 72410 TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri Memo No. 3008

Name Plate Data		WINDING — PARTS — DATA	
Make	<u>Muller</u>	High Side	Low Side
K. V. A.	<u>513</u>	Volts <u>238460</u>	<u>275-0-295</u>
Type	<u>4972</u>	Turns	
Form		Size Wire	
Style		Wire Par	
Spec.		Notes:	
Model		Co. No.	<u>109386</u>
Serial No.	<u>45963</u>	Work to be done:	<u>Complete repair, dip tank, test, 1</u>
Cycles	<u>60</u>		
Polarity			
Hangers			
Bushings, H. V.			
Bushings, L. V.			
Gals. Oil			
% Imp.			
Phase	<u>1</u>		



SENAATH, MO

INMAN

S. O. No. 707493	Name MISSOURI UTILITIES	Address
Order No. 63403	Date Received 6 APRIL 78	Date Finished
Inv. No. 86353	TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri	Memo No.
Date Delivered 4-21-78		
Name Plate Data		
Make ALLIS CHALMERS	WINDING — PARTS — DATA	
K. V. A. 250	High Side	Low Side
Type OISC	Volts 13800	2400/4160Y
Form	Turns	
Style	Size Wire	
Spec.	Wire Par	
Model	Notes: TAPS: 2 250/0 AN & BN	
Serial No. 2598380	Co. No. 92	
Cycles 60	Work to be done: DISMANTLE TRANSFORMER — CLEAN 9	
Polarity SUB	BAKE CORE 9 COIL — CLEAN INSIDE OF TANK	
Hangers	— SUPPLY NEW OIL — CLEAN BUSHINGS —	
Bushings, H. V.	— SUPPLY NEW GASKETS	
Bushings, L. V.	ASSEMBLE — TEST — PAINT	
Gals. Oil 169		
% Imp. 3.8		
Phase 1		
WT. 4000 Lb		

765 W. Stockton

Marion, ILL 62459

S. O. No. 70751	Name Gies Dismantle	Address
Order No.	Date Received 4-11-78	Date Finished
Inv. No. 86398	TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri	Memo No. 6196
Date Delivered 4-24-78		
Name Plate Data		
Make KERSCH	WINDING — PARTS — DATA	
K. V. A. 12	High Side	Low Side
Type ORA	Volts 240/480 0	120 0
Form	Turns	
Style	Size Wire	
Spec.	Wire Par	
Model S-500	Notes: TAP 2 240/120	
Serial No. NIP	Co. No. G-1882	
Cycles 60	Work to be done: Complete rewinding — install	
Polarity	new KERSCH PRI TAP BOARD — new secondary	
Hangers	TAP BOARD WITH HARDWARE — SPECIAL NIP	
Bushings, H. V.	4 BAKE — TEST	
Bushings, L. V.		
Gals. Oil		
% Imp.		
Phase 3		

INVOICE

# MISSOURI ELECTRIC WORKS INC.

MOTORS  
TRANSFORMERS  
POWER EQUIPMENT  
REWINDING-SALES  
P.O. BOX 662

Service

Phone 335-6603

CAPE  
GIRARDEAU  
MISSOURI  
63701

TO: Missouri Utilities Co.  
400 Broadway  
Cape Girardeau, MO. 63701

INVOICE NO. 92637

YOUR ORDER NO. 69936

EARN \$ 49c BY DELIVERED BY 5505

OUR S.O. NO. 72657

PAYING THIS INVOICE IN  
TEN DAYS. 30 DAYS NET. DATE DELIVERED 7/18/80

INVOICE DATE 7/23/80

## REPAIR:

1 - 50 KVA Boxer transformer, CD type, 3/4 7701455903, 60 CYC, 1  $\phi$ , 1.0%,  
2400X7200 V to 240/480 V, no taps.

## WORK DONE:

Dismantle, check & repair connections, replace 5 gal. oil, assemble, test, paint.

lhr.	36.00
mtl.	12.50
	<hr/> 48.50
tax	.58
	<hr/> 49.08

TOTAL INVOICE: \$ 49.08



79 Wickard Ave. 1952  
 Order No. 1156 Name: *Fitchburg Electric Co. Address: 718 E. 1st St. J.P. 1952*  
 Date Received: *7-27-52* Date Delivered: *7-27-52*  
 Inv. No. *8804* TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri Memo No. *8804*

Name Plate Data		WINDING — PARTS — DATA		
Make	<i>MOLONEY</i>	Volts	High Side	Low Side
K. V. A.	<i>112 1/2</i>	Turns	<i>2400</i>	<i>480V</i>
Type	<i>SP TH</i>	Size Wire		
Form		Wire Par		
Style		Notes:	<i>3φ</i>	<i>2-2 1/2 ±</i>
Spec.		Co. No.		<i>1952</i>
Model		Work to be done:	<i>RECONNECT FOR 2400</i>	
Serial No.	<i>902884</i>			
Cycles				
Polarity				
Wings				
Wings, H. V.				
Wings, L. V.				
Ins. Oil				
Imp.	<i>2.6</i>			
Phase				
	<i>2875</i>			

*61" High*  
*31" Deep*  
*44" Wide*  
*800 TON*

Date	Locals	Hours
11/16 GA 9	work on	4:44 3A
✓ 11/16 VS 4 1/2	bring inside clean	@ 480V
11/17 GA 7 1/2	pump out oil	
✓ 11/17 VS 4	Clean out to 100 clean	
	bring in	
	pump out oil	
	bring in	
	wind coil	
✓ 11/21 GA 2	put coil on frame	
✓ 11/21 VS 9	clean back floor	
11/22 GA 2	help paint transformer	
11/24 GA 4	and paint + paint	
	help paint	
	paint + paper	

*@ 800 - 8*



S.O. No. T6037 Name Giles A. & E Address Manson, Ill  
 Order No. 53934 Date Received \_\_\_\_\_ Date Finished \_\_\_\_\_ Date Delivered 9-15-70  
 Inv. No. 63867 TRANSFORMER CARD — Missouri Electric Works, Inc. — Cape Girardeau, Missouri Memo No. 8102

Name Plate Data		WINDING — PARTS — DATA	
Make	<u>WAGNER</u>	High Side	Low Side
K. V. A.	<u>22.5</u>	<u>12470 Y</u>	<u>210 / 180 A</u>
Type	<u>HPK-2</u>	Volts	
Form		Turns	
Style		Size Wire	
Spec.		Wire Par	
Model		Notes:	
Serial No.	<u>9N2655</u> (20)	<u>1959-30-2-2 1/2 20</u>	
Cycles		Co. No.	
Polarity		Work to be done:	
Hangers		<u>13094</u>	
Bushings, H. V.		<u>12182</u>	<u>PRI - COVER BUSH</u>
Bushings, L. V.		<u>12470</u>	<u>SEC - WARE</u>
Gals. Oil	<u>1A1</u>	<u>12158</u>	
% Imp.	<u>4.7</u>	<u>11846</u>	
Phase		<u>HIGH - 60</u>	
		<u>WIRE - 48</u>	
		<u>DEEP - 40</u>	
WT	<u>3850</u>		

LABOR — TIME

Union 475

Date	Initials	Hours
4-11-70	DP-4 - Drain & Reseal	
	- RR-1 - Reseal	
	- LR-4 - Check oil & adjust tank	
	- JW-2 - Drain & Reseal	
	- 5K-1 - m to up & 1th connection	
	- DP-1 1/2 - m to up & 1th connection	
	- LR-5 - drain oil & f. Her - broken & cracked fix leaks	
	- JT-4 - Reseal	
	- SW-2 1/2 - wipe out inside of tank - f. Her oil - remove & gasket off 1st - 2nd & 3rd	
	- 14-SW-13 1/2 - f. 11 w/oil - a 156 - clean bushings	
	- DP-6 - f. 11 w/oil	
	- LR-5 1/2 - a 556 - pull vacuum - paint	
	- 5-SW-3 - m to up & 1th connection - cover & put on paint	
		12.00